

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal600cxc

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 DEC 05 CASREACT(R) - Over 10 million reactions available  
NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE  
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER  
NEWS 6 DEC 14 CA/CAPLUS to be enhanced with updated IPC codes  
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the  
IPC reform  
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
NEWS 13 JAN 30 Saved answer limit increased

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT  
<http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006

=> file medline, agricola, caba, caplus, biosis, biotechno		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 14:45:48 ON 30 JAN 2006

FILE 'AGRICOLA' ENTERED AT 14:45:48 ON 30 JAN 2006

FILE 'CABA' ENTERED AT 14:45:48 ON 30 JAN 2006

COPYRIGHT (C) 2006 CAB INTERNATIONAL (CABI)

FILE 'CAPLUS' ENTERED AT 14:45:48 ON 30 JAN 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 14:45:48 ON 30 JAN 2006  
Copyright (c) 2006 The Thomson Corporation

FILE 'BIOTECHNO' ENTERED AT 14:45:48 ON 30 JAN 2006  
COPYRIGHT (C) 2006 Elsevier Science B.V., Amsterdam. All rights reserved.

=> s (da costa e silva, o? or da costa e silva o?)/au  
L1 52 (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU

=> s (bohnert, h? or bohnert h?)/au  
L2 1107 (BOHNERT, H? OR BOHNERT H?)/AU

=> s (van thielen, n? or van thielen n?)/au  
L3 21 (VAN THIELEN, N? OR VAN THIELEN N?)/AU

=> s (chen, r? or chen r?)/au  
L4 13011 (CHEN, R? OR CHEN R?)/AU

=> s (ishitani, m? or ishitani m?)/au  
L5 369 (ISHITANI, M? OR ISHITANI M?)/AU

=> s l1 and l2 and l3 and l4 and l5  
L6 4 L1 AND L2 AND L3 AND L4 AND L5

=> duplicate remove l6  
DUPLICATE PREFERENCE IS 'CAPLUS, BIOSIS'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L6  
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> d l7 1-4 ti

L7 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Phosphatase stress-related proteins and methods of use in plants.

L7 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Signal transduction stress-related proteins and methods of use in plants.

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Transgenic plants expressing protein phosphatase stress-related polypeptides for stress resistance

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Protein and cDNA sequence of Physcomitrella patens signal transduction stress-related proteins and uses in plants for increased tolerance to environmental stresses

=> d l7 1,3 bib

L7 ANSWER 1 OF 4 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
AN 2005:1870 BIOSIS  
DN PREV200500011655  
TI Phosphatase stress-related proteins and methods of use in plants.  
AU **da Costa e Silva, Oswaldo** [Inventor, Reprint Author];  
**Bohnert, Hans J.** [Inventor]; **van Thielen, Nocha**  
[Inventor]; **Chen, Ruoying** [Inventor]; **Ishitani, Manabu**  
[Inventor]  
CS ASSIGNEE: BASF Plant Science GmbH, Ludwigshafen, Germany  
PI US 6818805 20041116  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(Nov 16 2004) Vol. 1288, No. 3. <http://www.uspto.gov/web/menu/patdata.html>  
. e-file.

ISSN: 0098-1133 (ISSN print).  
DT Patent  
LA English  
ED Entered STN: 16 Dec 2004  
Last Updated on STN: 16 Dec 2004

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:202796 CAPLUS  
DN 138:249898  
TI Transgenic plants expressing protein phosphatase stress-related  
polypeptides for stress resistance  
IN Bohnert, Hans J.; Chen, Ruoying; Ishitani,  
Manabu; Van Thielen, Nocha; Da Costa e Silva,  
Oswaldo  
PA BASF Plant Science GmbH, Germany  
SO PCT Int. Appl., 107 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003020914	A2	20030313	WO 2002-US28445	20020905
	WO 2003020914	A3	20030821		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2459961	AA	20030313	CA 2002-2459961	20020905
	US 2003150028	A1	20030807	US 2002-236699	20020905
	EP 1423508	A2	20040602	EP 2002-797860	20020905
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
PRAI	US 2001-317305P	P	20010905		
	WO 2002-US28445	W	20020905		

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU  
L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU  
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU  
L4 13011 S (CHEN, R? OR CHEN R?)/AU  
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU  
L6 4 S L1 AND L2 AND L3 AND L4 AND L5  
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)

=> s l1 or l2 or l3 or l4 or l5

L8 14488 L1 OR L2 OR L3 OR L4 OR L5

=> s l8 not l6

L9 14484 L8 NOT L6

=> s physcomitrella(s)2a(s)phosphatase

L10 0 PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE

=> s physcomitrella(s)phosphatase

L11 13 PHYSCOMITRELLA(S) PHOSPHATASE

=> s 19 and 111  
L12 0 L9 AND L11

=> s 111 not 16  
L13 12 L11 NOT L6

=> duplicate remove 113  
DUPLICATE PREFERENCE IS 'MEDLINE, CABA, CAPLUS, BIOSIS, BIOTECHNO'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L13  
L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)

=> d 114 1-5 ti

L14 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1  
TI Characterization of a novel plant PP2C-like protein Ser/Thr phosphatase as a calmodulin-binding protein.

L14 ANSWER 2 OF 5 CABA COPYRIGHT 2006 CABI on STN DUPLICATE 2  
TI Sucrose-phosphatase gene families in plants.

L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Cloning, characterization and biotechnological use of Physcomitrella patens proteins and enzymes involved in the synthesis of amino acids, vitamins, cofactors, nucleotides and nucleosides

L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Moss genes from Physcomitrella patens encoding proteins involved in the synthesis of carbohydrates

L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3  
TI Physcomitrella patens gene/cDNA fragments related to genes encoding protein Ser/Thr phosphatases

=> d 114 1-5 bib

L14 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1  
AN 2003440731 MEDLINE  
DN PubMed ID: 12860996  
TI Characterization of a novel plant PP2C-like protein Ser/Thr phosphatase as a calmodulin-binding protein.  
AU Takezawa Daisuke  
CS Institute of Low Temperature Science, Hokkaido University, Sapporo 060-0819, Japan.. daisuket@pop.lowtem.hokudai.ac.jp  
SO Journal of biological chemistry, (2003 Sep 26) 278 (39) 38076-83.  
Electronic Publication: 2003-07-14.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AY229980  
EM 200311  
ED Entered STN: 20030923  
Last Updated on STN: 20031218  
Entered Medline: 20031117

L14 ANSWER 2 OF 5 CABA COPYRIGHT 2006 CABI on STN DUPLICATE 2  
AN 2003:69587 CABA  
DN 20033034654  
TI Sucrose-phosphatase gene families in plants  
AU Lunn, J. E.  
CS CSIRO Plant Industry, GPO Box 1600, Canberra, ACT 2601, Australia.  
lunn@mpimp-golm.mpg.de  
SO Gene, (2003) Vol. 303, No. 1/2, pp. 187-196. 21 ref.  
Publisher: Elsevier Science B.V. Amsterdam  
ISSN: 0378-1119  
CY Netherlands Antilles

DT Journal  
LA English  
ED Entered STN: 20030502  
Last Updated on STN: 20030502

L14 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:755097 CAPLUS

DN 137:275028

TI Cloning, characterization and biotechnological use of *Physcomitrella patens* proteins and enzymes involved in the synthesis of amino acids, vitamins, cofactors, nucleotides and nucleosides

IN Lerchl, Jens; Renz, Andreas; Ehrhardt, Thomas; Reindl, Andreas; Cirpus, Petra; Bischoff, Friedrich; Frank, Markus; Freund, Annette; Duwenig, Elke; Schmidt, Ralf-Michael; Reski, Ralf

PA Germany

SO U.S. Pat. Appl. Publ., 107 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002142422	A1	20021003	US 2000-734017	20001212
PRAI	US 1999-171100P	P	19991216		

L14 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:453263 CAPLUS

DN 135:72159

TI Moss genes from *Physcomitrella patens* encoding proteins involved in the synthesis of carbohydrates

IN Lerchl, Jens; Renz, Andreas; Ehrhardt, Thomas; Reindl, Andreas; Cirpus, Petra; Bischoff, Friedrich; Frank, Markus; Freund, Annette; Duwenig, Elke; Schmidt, Ralf-Michael; Reski, Ralf

PA Basf Plant Science G.m.b.H., Germany

SO PCT Int. Appl., 133 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001044476	A2	20010621	WO 2000-EP12697	20001214
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 2002064816	A1	20020530	US 2000-734569	20001213
PRAI	US 1999-171101P	P	19991216		

L14 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 3

AN 1999:509405 CAPLUS

DN 131:182360

TI *Physcomitrella patens* gene/cDNA fragments related to genes encoding protein Ser/Thr phosphatases

AU Andreeva, Alexandra V.; Kutuzov, Mikhail A.

CS Research School Biological Molecular Sciences, Oxford Brookes Univ., Oxford, OX3 0BP, UK

SO Journal of Plant Physiology (1999), 155(2), 153-158

CODEN: JPPHEY; ISSN: 0176-1617

PB Urban & Fischer Verlag

DT Journal

LA English

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT  
14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU  
L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU  
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU  
L4 13011 S (CHEN, R? OR CHEN R?)/AU  
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU  
L6 4 S L1 AND L2 AND L3 AND L4 AND L5  
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)  
L8 14488 S L1 OR L2 OR L3 OR L4 OR L5  
L9 14484 S L8 NOT L6  
L10 0 S PHYSCOMITRELLA(S)2A(S)PHOSPHATASE  
L11 13 S PHYSCOMITRELLA(S)PHOSPHATASE  
L12 0 S L9 AND L11  
L13 12 S L11 NOT L6  
L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)

=> s 2a(w)phosphatase

L15 248 2A(W) PHOSPHATASE

=> s 2a(s)alpha(s)catalytic(s)phosphatase

L16 272 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE

=> s l16 and (plant or plants)

L17 16 L16 AND (PLANT OR PLANTS)

=> duplicate remove l17

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L17

L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)

=> s l18 not l8

L19 8 L18 NOT L8

=> d l19 1-8 ti

L19 ANSWER 1 OF 8 MEDLINE on STN

TI Cantharidin-binding protein: identification as protein phosphatase 2A.

L19 ANSWER 2 OF 8 AGRICOLA Compiled and distributed by the National  
Agricultural Library of the Department of Agriculture of the United States  
of America. It contains copyrighted materials. All rights reserved.  
(2006) on STN

TI The arabidopsis homolog of yeast TAP42 and mammalian **alpha 4**  
binds to the **catalytic** subunit of protein **phosphatase**  
**2A** and is induced by chilling.

L19 ANSWER 3 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Interaction of maize (Zea mays) protein phosphatase 2A with tubulin.

L19 ANSWER 4 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Characterisation of two protein phosphatase 2A holoenzymes from maize  
seedlings.

L19 ANSWER 5 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Characterization of the promoter region and expression pattern of three  
Arabidopsis protein phosphatase type 2A subunit genes.

L19 ANSWER 6 OF 8 CABA COPYRIGHT 2006 CABI on STN

TI Molecular characterization of catalytic-subunit cDNA sequences encoding  
protein phosphatases 1 and 2A and study of their roles in the  
gibberellin-dependent Osamy-c expression in rice.

L19 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Protein phosphatase 2A-alpha involvement in granulocytic differentiation  
of HL-60 cells.

L19 ANSWER 8 OF 8 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN  
TI High complexity in the expression of the B' subunit of protein  
phosphatase 2A(o). Evidence for the existence of at least seven novel  
isoforms

=> d 119 1-8 bib

L19 ANSWER 1 OF 8 MEDLINE on STN  
AN 93101627 MEDLINE  
DN PubMed ID: 1334551  
TI Cantharidin-binding protein: identification as protein phosphatase 2A.  
AU Li Y M; Casida J E  
CS Department of Entomological Sciences, University of California, Berkeley  
94720.  
NC ES00049 (NIEHS)  
SO Proceedings of the National Academy of Sciences of the United States of  
America, (1992 Dec 15) 89 (24) 11867-70.  
Journal code: 7505876. ISSN: 0027-8424.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS PIR-A34541; PIR-B37135  
EM 199301  
ED Entered STN: 19930205  
Last Updated on STN: 19970203  
Entered Medline: 19930119

L19 ANSWER 2 OF 8 AGRICOLA Compiled and distributed by the National  
Agricultural Library of the Department of Agriculture of the United States  
of America. It contains copyrighted materials. All rights reserved.  
(2006) on STN  
AN 2000:40650 AGRICOLA  
DN IND22041271  
TI The arabidopsis homolog of yeast TAP42 and mammalian **alpha 4**  
binds to the **catalytic** subunit of protein **phosphatase**  
**2A** and is induced by chilling.  
AU Harris, D.M.; Myrick, T.L.; Rundle, S.J.  
AV DNAL (450 P692)  
SO Plant physiology, Oct 1999. Vol. 121, No. 2. p. 609-617  
CODEN: PLPHAY; ISSN: 0032-0889  
NTE Includes references  
CY Maryland; United States  
DT Article; Conference  
FS Other US  
LA English

L19 ANSWER 3 OF 8 CABA COPYRIGHT 2006 CABI on STN  
AN 2003:140060 CABA  
DN 20033104611  
TI Interaction of maize (Zea mays) protein phosphatase 2A with tubulin  
AU Awotunde, O. S.; Lechward, K.; Krajewska, K.; Zolnierowicz, S.;  
Muszyn[acute]ska, G.  
CS Institute of Biochemistry and Biophysics, Polish Academy of Sciences,  
Warszawa, Poland. muszynsk@ibb.waw.pl  
SO Acta Biochimica Polonica, (2003) Vol. 50, No. 1, pp. 131-138.  
Publisher: Polskie Towarzystwo Biochemiczne. Warsaw  
ISSN: 0001-527X  
CY Poland  
DT Journal  
LA English  
ED Entered STN: 20030916  
Last Updated on STN: 20030916

L19 ANSWER 4 OF 8 CABA COPYRIGHT 2006 CABI on STN  
AN 2002:122080 CABA  
DN 20013166076  
TI Characterisation of two protein phosphatase 2A holoenzymes from maize seedlings  
AU Awotunde, O. S.; Sugajska, E.; Zolnierowicz, S.; Muszyn[acute]ska, G.  
CS Institute of Biochemistry and Biophysics, Polish Academy of Sciences, 5a Pawinskiego St., 02-106 Warsaw, Poland. muszynsk@ibbbrain.ibb.waw.pl  
SO Biochimica et Biophysica Acta, Protein Structure and Molecular Enzymology, (2000) Vol. 1480, No. 1/2, pp. 65-76. 56 ref.  
Publisher: Elsevier Science Publishers B.V, Biomedical Division. Amsterdam  
ISSN: 0167-4838  
CY Netherlands Antilles  
DT Journal  
LA English  
ED Entered STN: 20020802  
Last Updated on STN: 20020802

L19 ANSWER 5 OF 8 CABA COPYRIGHT 2006 CABI on STN  
AN 1999:163124 CABA  
DN 19991612261  
TI Characterization of the promoter region and expression pattern of three Arabidopsis protein phosphatase type 2A subunit genes  
AU Thakore, C. U.; Livengood, A. J.; Hendershot, J. D., III; Corum, J. W.; LaTorre, K. A.; Rundle, S. J.  
CS Department of Biology, Western Carolina University, Cullowhee, NC 28723, USA.  
SO Plant Science (Limerick), (1999) Vol. 147, No. 2, pp. 165-176. 51 ref.  
ISSN: 0168-9452  
DT Journal  
LA English  
ED Entered STN: 19991208  
Last Updated on STN: 19991208

L19 ANSWER 6 OF 8 CABA COPYRIGHT 2006 CABI on STN  
AN 1999:49220 CABA  
DN 19991603221  
TI Molecular characterization of catalytic-subunit cDNA sequences encoding protein phosphatases 1 and 2A and study of their roles in the gibberellin-dependent Osamy-c expression in rice  
AU Chang MenChi; Wang BaiYang; Chen XiongFong; Wu; Chang, M. C.; Wang, B. Y.; Chen, X. F.; Wu, R.  
CS Department of Plant Biology, Cornell University, Ithaca, NY 14853, USA.  
SO Plant Molecular Biology, (1999) Vol. 39, No. 1, pp. 105-115. 39 ref.  
ISSN: 0167-4412  
DT Journal  
LA English  
ED Entered STN: 19990414  
Last Updated on STN: 19990414

L19 ANSWER 7 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
AN 1993:390274 BIOSIS  
DN PREV199396065574  
TI Protein phosphatase 2A-alpha involvement in granulocytic differentiation of HL-60 cells.  
AU Sasaki, Kazunori [Reprint author]; Ikeda, Kazuma; Nagai, Masami; Shima, Hiroshi; Nagao, Minako; Takahara, Jiro; Irino, Shozo  
CS First Dep. Internal Med., Kagawa Med. Sch., 1750-1 Miki-cho, Kita-gun, Kagawa 761-07, Japan  
SO Hematological Oncology, (1993) Vol. 11, No. 1, pp. 1-5.  
CODEN: HAONDL. ISSN: 0278-0232.  
DT Article  
LA English  
ED Entered STN: 23 Aug 1993  
Last Updated on STN: 3 Jan 1995

L19 ANSWER 8 OF 8 BIOTECHNO COPYRIGHT 2006 Elsevier Science B.V. on STN  
AN 1996:26047866 BIOTECHNO  
TI High complexity in the expression of the B' subunit of protein



phosphatase 2A(o). Evidence for the existence of at least seven novel isoforms

AU Csontos C.; Zolnierowicz S.; Bako E.; Durbin S.D.; DePaoli-Roach A.A.  
 CS Biochemistry/Molec. Biology Dept., Indiana Univ. School of Medicine, 635 Barnhill Dr., Indianapolis, IN 46202-5122, United States.  
 SO Journal of Biological Chemistry, (1996), 271/5 (2578-2588)  
 CODEN: JBCHA3 ISSN: 0021-9258  
 DT Journal; Article  
 CY United States  
 LA English  
 SL English

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU  
 L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU  
 L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU  
 L4 13011 S (CHEN, R? OR CHEN R?)/AU  
 L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU  
 L6 4 S L1 AND L2 AND L3 AND L4 AND L5  
 L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)  
 L8 14488 S L1 OR L2 OR L3 OR L4 OR L5  
 L9 14484 S L8 NOT L6  
 L10 0 S PHYSCOMITRELLA(S)2A(S)PHOSPHATASE  
 L11 13 S PHYSCOMITRELLA(S)PHOSPHATASE  
 L12 0 S L9 AND L11  
 L13 12 S L11 NOT L6  
 L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)  
 L15 248 S 2A(W)PHOSPHATASE  
 L16 272 S 2A(S)ALPHA(S)CATALYTIC(S)PHOSPHATASE  
 L17 16 S L16 AND (PLANT OR PLANTS)  
 L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)  
 L19 8 S L18 NOT L8

=> s l15 not l16

L20 241 L15 NOT L16

=> s l20 and (plant or plants)

L21 21 L20 AND (PLANT OR PLANTS)

=> s l21 not l6

L22 21 L21 NOT L6

=> duplicate remove l22

DUPLICATE PREFERENCE IS 'MEDLINE, CABA, CAPLUS, BIOSIS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L22

L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

=> d l23 1-14 ti

L23 ANSWER 1 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI The yeast phosphotyrosyl phosphatase activator is part of the tap42-phosphatase complexes.

L23 ANSWER 2 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Specific interactions of PP2A and PP2A-like phosphatases with the yeast PTPA homologues, Ypa1 and Ypa2.

L23 ANSWER 3 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Interaction with Tap42 is required for the essential function of Sit4 and type 2A phosphatases.

L23 ANSWER 4 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI HTLV-1 onco-protein Tax inhibits cell growth and perturbs spindle check point in *Saccharomyces cerevisiae*.

L23 ANSWER 5 OF 14 MEDLINE on STN DUPLICATE 1

TI The *Arabidopsis thaliana* PPX/PP4 phosphatases: molecular cloning and structural organization of the genes and immunolocalization of the proteins to plastids.

L23 ANSWER 6 OF 14 MEDLINE on STN DUPLICATE 2

TI The *Arabidopsis* homolog of yeast TAP42 and mammalian alpha4 binds to the catalytic subunit of protein phosphatase 2A and is induced by chilling.

L23 ANSWER 7 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI The TOR nutrient signalling pathway phosphorylates NPR1 and inhibits turnover of the tryptophan permease.

L23 ANSWER 8 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI *Saccharomyces cerevisiae* homologs of mammalian B and B' subunits of protein phosphatase 2A direct the enzyme to distinct cellular functions.

L23 ANSWER 9 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI Nutrients, via the Tor proteins, stimulate the association of Tap42 with type 2A phosphatases.

L23 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

TI Characterization of DNA sequences encoding a novel isoform of the 55 kDa B regulatory subunit of the type 2A protein serine/threonine phosphatase of *Arabidopsis thaliana*

L23 ANSWER 11 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI The role of *Saccharomyces cerevisiae* type 2A phosphate in the actin cytoskeleton and in entry into mitosis.

L23 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

TI Phosphoprotein phosphatase genes of *Arabidopsis thaliana*

L23 ANSWER 13 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

TI TANSLEY REVIEW NO. 37 CIRCADIAN RHYTHMS THEIR ORIGIN AND CONTROL.

L23 ANSWER 14 OF 14 MEDLINE on STN DUPLICATE 3

TI Identification of high levels of type 1 and type 2A protein phosphatases in higher plants.

=> d 123 6,10,12,13,14 bib

L23 ANSWER 6 OF 14 MEDLINE on STN DUPLICATE 2

AN 1999447965 MEDLINE

DN PubMed ID: 10517853

TI The *Arabidopsis* homolog of yeast TAP42 and mammalian alpha4 binds to the catalytic subunit of protein phosphatase 2A and is induced by chilling.

AU Harris D M; Myrick T L; Rundle S J

CS Department of Biology, Western Carolina University, Cullowhee, North Carolina 28723, USA.

SO Plant physiology, (1999 Oct) 121 (2) 609-17.

Journal code: 0401224. ISSN: 0032-0889.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199911

ED Entered STN: 20000113

Last Updated on STN: 20000113

Entered Medline: 19991126

L23 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1996:515691 CAPLUS

DN 125:187118  
TI Characterization of DNA sequences encoding a novel isoform of the 55 kDa B regulatory subunit of the type 2A protein serine/threonine phosphatase of Arabidopsis thaliana  
AU Corum, John W., III; Hartung, Andrew J.; Stamey, Robin T.; Rundle, Sabine J.  
CS Dep. Biology, Western Carolina Univ., Cullowhee, NC, 28723, USA  
SO Plant Molecular Biology (1996), 31(2), 419-427  
CODEN: PMBIDB; ISSN: 0167-4412  
PB Kluwer  
DT Journal  
LA English

L23 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN  
AN 1994:184375 CAPLUS  
DN 120:184375  
TI Phosphoprotein phosphatase genes of Arabidopsis thaliana  
AU Aoki, Miki; Oka, Atsuhiko  
CS Inst. Chem. Res., Kyoto Univ., Uji, 611, Japan  
SO Bulletin of the Institute for Chemical Research, Kyoto University (1993), 71(3), 295-307  
CODEN: BICRAS; ISSN: 0023-6071  
DT Journal  
LA English

L23 ANSWER 13 OF 14 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
AN 1992:459628 BIOSIS  
DN PREV199294101028; BA94:101028  
TI TANSLEY REVIEW NO. 37 CIRCADIAN RHYTHMS THEIR ORIGIN AND CONTROL.  
AU WILKINS M B [Reprint author]  
CS DEP BOTANY, GLASGOW UNIVERSITY, GLASGOW G12 8QQ, UK  
SO New Phytologist, (1992) Vol. 121, No. 3, pp. 347-375.  
CODEN: NEPHAV. ISSN: 0028-646X.  
DT Article  
FS BA  
LA ENGLISH  
ED Entered STN: 7 Oct 1992  
Last Updated on STN: 8 Oct 1992

L23 ANSWER 14 OF 14 MEDLINE on STN DUPLICATE 3  
AN 90056434 MEDLINE  
DN PubMed ID: 2554892  
TI Identification of high levels of type 1 and type 2A protein phosphatases in higher plants.  
AU MacKintosh C; Cohen P  
CS Department of Biochemistry, University of Dundee, Scotland, U.K.  
SO Biochemical journal, (1989 Aug 15) 262 (1) 335-9.  
Journal code: 2984726R. ISSN: 0264-6021.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198912  
ED Entered STN: 19900328  
Last Updated on STN: 19970203  
Entered Medline: 19891207

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU  
L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU  
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU  
L4 13011S (CHEN, R? OR CHEN R?)/AU

L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU  
 L6 4 S L1 AND L2 AND L3 AND L4 AND L5  
 L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)  
 L8 14488 S L1 OR L2 OR L3 OR L4 OR L5  
 L9 14484 S L8 NOT L6  
 L10 0 S PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE  
 L11 13 S PHYSCOMITRELLA(S) PHOSPHATASE  
 L12 0 S L9 AND L11  
 L13 12 S L11 NOT L6  
 L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)  
 L15 248 S 2A(W) PHOSPHATASE  
 L16 272 S 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE  
 L17 16 S L16 AND (PLANT OR PLANTS)  
 L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)  
 L19 8 S L18 NOT L8  
 L20 241 S L15 NOT L16  
 L21 21 S L20 AND (PLANT OR PLANTS)  
 L22 21 S L21 NOT L6  
 L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

=> file uspatfull

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	82.61	82.82

FILE 'USPATFULL' ENTERED AT 14:55:40 ON 30 JAN 2006  
 CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 26 Jan 2006 (20060126/PD)  
 FILE LAST UPDATED: 26 Jan 2006 (20060126/ED)  
 HIGHEST GRANTED PATENT NUMBER: US6990685  
 HIGHEST APPLICATION PUBLICATION NUMBER: US2006021102  
 CA INDEXING IS CURRENT THROUGH 26 Jan 2006 (20060126/UPCA)  
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 26 Jan 2006 (20060126/PD)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2005  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2005

=> s 11

4 DA COSTA E SILVA, O?/AU  
 4 DA COSTA E SILVA O?/AU  
 L24 4 (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU

=> s 12

19 BOHNERT, H?/AU  
 19 BOHNERT H?/AU  
 L25 19 (BOHNERT, H? OR BOHNERT H?)/AU

=> s 13

5 VAN THIELEN, N?/AU  
 5 VAN THIELEN N?/AU  
 L26 5 (VAN THIELEN, N? OR VAN THIELEN N?)/AU

=> s 14

575 CHEN, R?/AU  
 575 CHEN R?/AU  
 L27 575 (CHEN, R? OR CHEN R?)/AU

=> s 15

15 ISHITANI, M?/AU  
 15 ISHITANI M?/AU  
 L28 15 (ISHITANI, M? OR ISHITANI M?)/AU

=> s 11 and 12 and 13 and 14 and 15

4 DA COSTA E SILVA, O?/AU  
 4 DA COSTA E SILVA O?/AU  
 19 BOHNERT, H?/AU  
 19 BOHNERT H?/AU  
 5 VAN THIELEN, N?/AU

5 VAN THIELEN N?/AU  
575 CHEN, R?/AU  
575 CHEN R?/AU  
15 ISHITANI, M?/AU  
15 ISHITANI M?/AU  
L29 1 L1 AND L2 AND L3 AND L4 AND L5

=> d l29 bib

L29 ANSWER 1 OF 1 USPATFULL on STN  
AN 2002:274368 USPATFULL  
TI Phosphatase stress-related proteins and methods of use in plants  
IN da Costa e Silva, Oswaldo, Apex, NC, UNITED STATES  
Bohnert, Hans J., Tucson, AZ, UNITED STATES  
van Thielen, Nocha, Cary, NC, UNITED STATES  
Chen, Ruoying, Apex, NC, UNITED STATES  
Ishitani, Manabu, Cary, NC, UNITED STATES  
PI US 2002152502 A1 20021017  
US 6818805 B2 20041116  
AI US 2001-828302 A1 20010406 (9)  
PRAI US 2000-196001P 20000407 (60)  
DT Utility  
FS APPLICATION  
LREP SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA,  
30309-3996  
CLMN Number of Claims: 40  
ECL Exemplary Claim: 1  
DRWN 31 Drawing Page(s)  
LN.CNT 3639  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s l1 or l2 or l3 or l4 or l5  
4 DA COSTA E SILVA, O?/AU  
4 DA COSTA E SILVA O?/AU  
19 BOHNERT, H?/AU  
19 BOHNERT H?/AU  
5 VAN THIELEN, N?/AU  
5 VAN THIELEN N?/AU  
575 CHEN, R?/AU  
575 CHEN R?/AU  
15 ISHITANI, M?/AU  
15 ISHITANI M?/AU  
L30 590 L1 OR L2 OR L3 OR L4 OR L5

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT  
14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU  
L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU  
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU  
L4 13011 S (CHEN, R? OR CHEN R?)/AU  
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU  
L6 4 S L1 AND L2 AND L3 AND L4 AND L5  
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)  
L8 14488 S L1 OR L2 OR L3 OR L4 OR L5  
L9 14484 S L8 NOT L6  
L10 0 S PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE  
L11 13 S PHYSCOMITRELLA(S) PHOSPHATASE  
L12 0 S L9 AND L11  
L13 12 S L11 NOT L6  
L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)  
L15 248 S 2A(W) PHOSPHATASE  
L16 272 S 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE  
L17 16 S L16 AND (PLANT OR PLANTS)  
L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)

L19 8 S L18 NOT L8  
L20 241 S L15 NOT L16  
L21 21 S L20 AND (PLANT OR PLANTS)  
L22 21 S L21 NOT L6  
L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

FILE 'USPATFULL' ENTERED AT 14:55:40 ON 30 JAN 2006

L24 4 S L1  
L25 19 S L2  
L26 5 S L3  
L27 575 S L4  
L28 15 S L5  
L29 1 S L1 AND L2 AND L3 AND L4 AND L5  
L30 590 S L1 OR L2 OR L3 OR L4 OR L5

=> s l11

114 PHYSCOMITRELLA  
53526 PHOSPHATASE

L31 4 PHYSCOMITRELLA(S) PHOSPHATASE

=> s l30 and l31

L32 4 L30 AND L31

=> d l32 1-4 ti

L32 ANSWER 1 OF 4 USPATFULL on STN

TI Phosphatase stress-related proteins and methods of use in plants

L32 ANSWER 2 OF 4 USPATFULL on STN

TI Pyrophosphatase stress-related proteins and methods of use in plants

L32 ANSWER 3 OF 4 USPATFULL on STN

TI Protein phosphatase stress-related polypeptides and methods of use in plants

L32 ANSWER 4 OF 4 USPATFULL on STN

TI Phosphatase stress-related proteins and methods of use in plants

=> d l32 1,3,4 bib

L32 ANSWER 1 OF 4 USPATFULL on STN

AN 2004:191882 USPATFULL

TI Phosphatase stress-related proteins and methods of use in plants

IN Silva, Oswaldo da Costa e, Apex, NC, UNITED STATES

**Bohnert, Hans J.**, Tucson, AZ, UNITED STATES

Thielen, Nocha van, Cary, NC, UNITED STATES

**Chen, Ruoying**, Apex, NC, UNITED STATES

**Ishitani, Manabu**, Cary, NC, UNITED STATES

PI US 2004148658 A1 20040729

AI US 2004-764259 A1 20040123 (10)

RLI Division of Ser. No. US 2001-828302, filed on 6 Apr 2001, PENDING

PRAI US 2000-196001P 20000407 (60)

DT Utility

FS APPLICATION

LREP Kathryn H. Wade, Ph.D., SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA, 30309-3996

CLMN Number of Claims: 20

ECL Exemplary Claim: 1

DRWN 10 Drawing Page(s)

LN.CNT 3858

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L32 ANSWER 3 OF 4 USPATFULL on STN

AN 2003:215383 USPATFULL

TI Protein phosphatase stress-related polypeptides and methods of use in plants

IN **Bohnert, Hans J.**, Champaign, IL, UNITED STATES

**Chen, Ruoying**, Apex, NC, UNITED STATES

**Ishitani, Manabu**, Cary, NC, UNITED STATES

**Thielen, Nocha Van**, Chapel Hill, NC, UNITED STATES

**Silva, Oswaldo da Costa e**, Cary, NC, UNITED STATES

PI US 2003150028 A1 20030807  
AI US 2002-236699 A1 20020905 (10)  
PRAI US 2001-317305P 20010905 (60)  
DT Utility  
FS APPLICATION  
LREP Lisa M. Cobern, Esq., SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree  
Street, NE, Atlanta, GA, 30309-3996  
CLMN Number of Claims: 71  
ECL Exemplary Claim: 1  
DRWN 9 Drawing Page(s)  
LN.CNT 3412

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L32 ANSWER 4 OF 4 USPATFULL on STN  
AN 2002:274368 USPATFULL  
TI Phosphatase stress-related proteins and methods of use in plants  
IN **da Costa e Silva, Oswaldo**, Apex, NC, UNITED STATES  
**Bohnert, Hans J.**, Tucson, AZ, UNITED STATES  
**van Thielen, Nocha**, Cary, NC, UNITED STATES  
**Chen, Ruoying**, Apex, NC, UNITED STATES  
**Ishitani, Manabu**, Cary, NC, UNITED STATES  
PI US 2002152502 A1 20021017  
US 6818805 B2 20041116  
AI US 2001-828302 A1 20010406 (9)  
PRAI US 2000-196001P 20000407 (60)  
DT Utility  
FS APPLICATION  
LREP SUTHERLAND ASBILL & BRENNAN LLP, 999 Peachtree Street, NE, Atlanta, GA,  
30309-3996  
CLMN Number of Claims: 40  
ECL Exemplary Claim: 1  
DRWN 31 Drawing Page(s)  
LN.CNT 3639  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 14:45:38 ON 30 JAN 2006)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT  
14:45:48 ON 30 JAN 2006

L1 52 S (DA COSTA E SILVA, O? OR DA COSTA E SILVA O?)/AU  
L2 1107 S (BOHNERT, H? OR BOHNERT H?)/AU  
L3 21 S (VAN THIELEN, N? OR VAN THIELEN N?)/AU  
L4 13011 S (CHEN, R? OR CHEN R?)/AU  
L5 369 S (ISHITANI, M? OR ISHITANI M?)/AU  
L6 4 S L1 AND L2 AND L3 AND L4 AND L5  
L7 4 DUPLICATE REMOVE L6 (0 DUPLICATES REMOVED)  
L8 14488 S L1 OR L2 OR L3 OR L4 OR L5  
L9 14484 S L8 NOT L6  
L10 0 S PHYSCOMITRELLA(S) 2A(S) PHOSPHATASE  
L11 13 S PHYSCOMITRELLA(S) PHOSPHATASE  
L12 0 S L9 AND L11  
L13 12 S L11 NOT L6  
L14 5 DUPLICATE REMOVE L13 (7 DUPLICATES REMOVED)  
L15 248 S 2A(W) PHOSPHATASE  
L16 272 S 2A(S) ALPHA(S) CATALYTIC(S) PHOSPHATASE  
L17 16 S L16 AND (PLANT OR PLANTS)  
L18 8 DUPLICATE REMOVE L17 (8 DUPLICATES REMOVED)  
L19 8 S L18 NOT L8  
L20 241 S L15 NOT L16  
L21 21 S L20 AND (PLANT OR PLANTS)  
L22 21 S L21 NOT L6  
L23 14 DUPLICATE REMOVE L22 (7 DUPLICATES REMOVED)

FILE 'USPATFULL' ENTERED AT 14:55:40 ON 30 JAN 2006

L24 4 S L1  
L25 19 S L2  
L26 5 S L3  
L27 575 S L4  
L28 15 S L5  
L29 1 S L1 AND L2 AND L3 AND L4 AND L5  
L30 590 S L1 OR L2 OR L3 OR L4 OR L5  
L31 4 S L11  
L32 4 S L30 AND L31

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

9.72

TOTAL

SESSION

92.54

STN INTERNATIONAL LOGOFF AT 14:57:59 ON 30 JAN 2006